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DATE: Friday, October 29, 2004

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11	L10 and l6	19
<input type="checkbox"/>	L10	L8 and l5	1483
<input type="checkbox"/>	L9	L8 and l6	328
<input type="checkbox"/>	L8	methacrylic or maleic anhydride or itaconic acid or vinyl alcohol or vinyl lactam or vinylpyrrolidone or vinylcaprolactam or butyrolactam or vinylacetamide or vinyl acetamide or dimethyldiallylammonium chloride	233837
<input type="checkbox"/>	L7	L6 and l5	20
<input type="checkbox"/>	L6	lcst! or lower critical solution temperature	905
<input type="checkbox"/>	L5	l1 and l2 and l3	7638
<input type="checkbox"/>	L4	l1 and l2 and l3L3	0
<input type="checkbox"/>	L3	oil-in-water or (oil in water)	32054
<input type="checkbox"/>	L2	emulsion	448161
<input type="checkbox"/>	L1	cosmetic	156719

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Search Results - Record(s) 1 through 19 of 19 returned.

☐ 1. Document ID: US 20040214913 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 19

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040214913

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040214913 A1

TITLE: Polymer comprising water-soluble units and lcst units, and aqueous composition comprising same

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
L'Alloret, Florence	Paris		FR	

US-CL-CURRENT: 523/105; 525/88

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw De
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☐ 2. Document ID: US 20040136937 A1

L11: Entry 2 of 19

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040136937

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040136937 A1

TITLE: Compositions comprising a tensioning polymer and an ionic amphiphilic polymer

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cassin, Guillaume	Villebon Sur Yvette		FR	

US-CL-CURRENT: 424/70.12; 424/70.16, 424/70.17

ABSTRACT:

The invention relates to a composition that is suitable for topical application to the skin, comprising an aqueous phase, a fatty phase, a dispersion of tensioning polymer particles that exhibit a retraction of isolated stratum corneum of 1.5% when tested at 30.degree. C., at a relative humidity of 40%, and at a concentration of 7% in water, and at least one ionic amphiphilic polymer.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Draw D
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☐ 3. Document ID: US 20040101498 A1

L11: Entry 3 of 19

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040101498

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040101498 A1

TITLE: Salt and heat sensitive, substantive UV-absorbing polymers

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koshti, Nirmal Madhukar	Mumbai		IN	
Naik, Shubhangi Dattaram	Thane		IN	

US-CL-CURRENT: 424/59; 424/60, 525/218

ABSTRACT:

Substantive UV-absorbing, water-soluble, cationic polymers containing cinnamidoalkylamines and benzamidoalkylamines, with 'inverse temperature dependant solubility' are described in the present invention. They are water-soluble at ambient conditions and yet they are water-resistant at the temperature of human body as well as in the presence of electrolytes. These properties make these macromolecules useful for personal care as well as fabric care products.

The present invention also describes the hair, skin and fabric care compositions containing the said polymers of Formula I wherein, ArCO is an UV-absorbing moiety of an organic sunscreen acid or mixtures of organic sunscreen acids selected from p-methoxy cinnamic acid and p-dimethyl amino benzoic acid; R.sub.2 and R.sub.3 are selected from hydrogen, alkyl and cycloalkyl group containing from 1 to 6 carbon atoms; m is an integer from 5 to 9 and n is an integer between 1 to 5 and m+n=10. 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Draw D
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☐ 4. Document ID: US 20040071641 A1

L11: Entry 4 of 19

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071641

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040071641 A1

TITLE: Photoprotective/cosmetic compositions comprising sulfonic/hydrophobic amphiphilic polymers

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boutelet, Karl	Paris		FR	
Candau, Didier	Bievres		FR	

US-CL-CURRENT: 424/59

ABSTRACT:

Photoprotective cosmetic/dermatological compositions well suited for the UV-photoprotection of human skin and/or hair, comprise (a) particulates of at least one insoluble mineral and/or organic UV-screening agent having a particle size ranging from 5 nm to 5 .mu.m and (b) a stabilizing amount of at least one amphiphilic polymerizate of at least one ethylenically unsaturated monomer which comprises a sulfonic group, whether in the free acid or in partially or totally neutralized state, and which amphiphilic polymerizate also comprises at least one hydrophobic moiety.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWOC	Drawings
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☐ 5. Document ID: US 20040062728 A1

L11: Entry 5 of 19

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040062728
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040062728 A1

TITLE: Photoprotective compositions comprising sulfonic/hydrophobic amphiphilic polymers

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boutelet, Karl	Paris		FR	
Candau, Didier	Bievres		FR	

US-CL-CURRENT: 424/59

ABSTRACT:

Photoprotective cosmetic/dermatological compositions well suited for the UV-photoprotection of human skin and/or hair, comprise (a) at least one organic UV-

screening agent and (b) an SPF-improving amount of at least one amphiphilic polymerizate of at least one ethylenically unsaturated monomer which comprises a sulfonic group, whether in the free acid or in partially or totally neutralized state, and which amphiphilic polymerizate also comprises at least one hydrophobic moiety.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw De
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☐ 6. Document ID: US 20040054076 A1

L11: Entry 6 of 19

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054076

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040054076 A1

TITLE: Method for preparing an emulsion with high-viscosity organic phase

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lannibois-Drean, Helene	Charenton Le Pont	NJ	FR	
Morvan, Mikel	Princeton		US	
Labeau, Marie-Pierre	Paris		FR	

US-CL-CURRENT: 524/832; 524/801

ABSTRACT:

The invention concerns a method for preparing an oil-in-water emulsion whereof the organic phase has a viscosity not less than 1 Pa.s, which consists in using an aqueous phase comprising at least a heat-thickening polymer having a viscosity jump between 25 and 80.degree. C. so that the value of the ratio $\log 10$ (viscosity at 80.degree. C.)/ $\log 10$ (viscosity at 25.degree. C.) is at least equal to 1, preferably at least equal to 2, the variation in viscosity being reversible; the amount of heat-thickening polymer being such that the aqueous phase viscosity is 0.2 to 5 times that of the organic phase at the temperature for preparing the emulsion; the latter being not less than the thickening temperature of the heat-thickening polymer.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw De
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☐ 7. Document ID: US 20030204014 A1

L11: Entry 7 of 19

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204014

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204014 A1

TITLE: Polymers which exhibit thermothickening properties and process making same

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yeung, Dominic Wai-Kwing	Mississauga		CA	
Liu, Leo Zhaoqing	Mississauga		CA	
Langlois, Bruno Rc	Sainte Genevieve Des Bois		FR	
Charmot, Dominique	Le Pre Saint Gervais		FR	
Corpart, Pascale	Sannois		FR	

US-CL-CURRENT: 524/558; 526/320, 526/333

ABSTRACT:

A polymer produced by polymerizing via water-in-oil emulsion polymerization one or more water soluble monomers with one or more polyalkoxylated monomers wherein said one or more polyalkoxylated monomers contains at least 25 alkylene oxide units and wherein said product demonstrates thermothickening properties, its method of manufacture and use thereof is disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FORM	Draw De
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☐ 8. Document ID: US 20030158330 A1

L11: Entry 8 of 19

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158330

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158330 A1

TITLE: Foaming emulsions and foaming compositions containing a polymer comprising water-soluble units and units with an lcst, especially for cosmetic uses

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
L'Alloret, Florence	Paris		FR	

US-CL-CURRENT: 524/801

ABSTRACT:

The invention relates to emulsions and foaming compositions containing a polymer comprising water-soluble units and units with an LCST, especially for cosmetic uses.

According to the invention, a polymer whose units with an LCST have in water a demixing temperature of from 5 to 40.degree. C. at a concentration of 1% by mass

are used in these compositions, to lower the surface tension or interface tension of water and to promote the production of foam or emulsion.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMOC	Draw De
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☐ 9. Document ID: US 20030157047 A1

L11: Entry 9 of 19

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030157047

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030157047 A1

TITLE: Cosmetic composition for removing make-up from and clening the skin

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lennon, Paula	Lyon		FR	
Boschet, Cecile	Chevilly-Larue		FR	
Guiramand, Carole	Jouy-En-Josas		FR	

US-CL-CURRENT: 424/70.11; 424/70.21

ABSTRACT:

The invention relates to composition containing an oil-in-water emulsion and (1) an amphiphilic polymer containing polymerized units of at least one monomer comprising ethylenic unsaturation comprising a sulphonic group, in the free or partially or completely neutralized form, and containing at least one hydrophobic part, and (2) at least one make-up-removing oil.

The composition according to the invention can be used in particular for removing make-up from and/or cleaning the skin, lips and/or eyes.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMOC	Draw De
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☐ 10. Document ID: US 20030108577 A1

L11: Entry 10 of 19

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108577

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030108577 A1

TITLE: Cosmetic and/or dermatological acid composition containing an amphiphilic polymer

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lorant, Raluca	Thiais		FR	
Lennon, Paula	Lyon		FR	

US-CL-CURRENT: 424/401

ABSTRACT:

The present invention relates to a cosmetic and/or dermatological composition containing an acidic aqueous medium and at least one amphiphilic polymer including at least one ethylenically unsaturated monomer containing a sulphonic group, in free form or partially or totally neutralized form and comprising at least one hydrophobic portion.

The invention also relates to the use of this composition for cosmetically treating and/or making up keratin materials, especially the skin, the hair and the mucous membranes of the skin.

The invention also relates to the use of an amphiphilic polymer including at least one ethylenically unsaturated monomer containing a sulphonic group, in free form or partially or totally neutralized form and comprising at least one hydrophobic portion to stabilize a cosmetic or dermatological composition containing at least one acidic active agent and/or having a pH less than or equal to 5.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Drawings
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☐ 11. Document ID: US 20030036490 A1

L11: Entry 11 of 19

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036490

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036490 A1

TITLE: Stable composition with high electrolyte content containing an amphiphilic polymer

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lorant, Raluca	Thias		FR	
Lennon, Paula	Lyon		FR	

US-CL-CURRENT: 510/130; 510/475

ABSTRACT:

The present invention relates to a composition for topical application, comprising at least one electrolyte and at least one amphiphilic polymer including at least one ethylenically unsaturated monomer containing a sulphonic group, in free form or

partially or totally neutralized form and comprising at least one hydrophobic portion.

The invention also relates to the uses of the said composition, especially in cosmetics, to treat and care for human skin, the scalp, mucous membranes, the nails and keratin fibres.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGURE	Drawings
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☐ 12. Document ID: US 20030013369 A1

L11: Entry 12 of 19

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030013369 A1

TITLE: Nanoparticle-based permanent treatments for textiles

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Soane, David S.	Piedmont	CA	US	
Offord, David A.	Castro Valley	CA	US	
Linford, Matthew R.	Orem	UT	US	
Millward, Dan B,	Alameda	CA	US	
Ware,, William JR.	Palo Alto	CA	US	
Erskine, Lael	Fremont	CA	US	
Green, Eric	Oakland	CA	US	
Lau, Ryan	Berkeley	CA	US	

US-CL-CURRENT: 442/181

ABSTRACT:

This invention is directed to preparations useful for the permanent or substantially permanent treatment of textiles and other webs. More particularly, the preparations of the invention comprise an agent or other payload surrounded by or contained within a polymeric encapsulator that is reactive to webs, to give textile-reactive nanoparticles. By "textile-reactive" is meant that the payload nanoparticle will form a chemical covalent bond with the fiber, yarn, fabric, textile, finished goods (including apparel), or other web or substrate to be treated. The polymeric encapsulator of the payload nanoparticle has a surface that includes functional groups for binding or attachment to the fibers of the textiles or other webs to be treated, to provide permanent attachment of the payload to the textiles. Alternatively, the surface of the nanoparticle includes functional groups that can bind to a linker molecule that will in turn bind or attach the nanoparticle to the fiber. This invention is further directed to the fibers, yarns, fabrics, other textiles, or finished goods treated with the textile-reactive nanoparticles. Such textiles and webs exhibit a greatly improved retention or durability of the payload agent and its activity, even after multiple washings.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 13. Document ID: US 20030004258 A1

L11: Entry 13 of 19

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004258

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030004258 A1

TITLE: Dispersions stabilized at temperatures of from 4 to 50 degrees celsius by means of a polymer comprising water-soluble units and units with an lcst

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
L'Alloret, Florence	Paris		FR	

US-CL-CURRENT: 524/500; 524/801

ABSTRACT:

The invention relates to dispersions, especially cosmetic dispersions, comprising an aqueous phase containing a polymer comprising water-soluble units and units with an LCST.

According to the invention, a polymer whose units with an LCST have in water a demixing temperature of from 5 to 40.degree. C. for a concentration of 1% by mass is used, the polymer being present in a concentration such that the gel point of the aqueous phase is from 5 to 40.degree. C., to ensure the stability of the dispersions at temperatures from 4.degree. C. to 50.degree. C.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 14. Document ID: US 20020198328 A1

L11: Entry 14 of 19

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020198328

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020198328 A1

TITLE: Water-soluble polymers with a water-soluble backbone and side units with a lower critical solution temperature, process for preparing them, aqueous compositions containing them and cosmetic use thereof

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
L'alloret, Florence	Paris		FR	

US-CL-CURRENT: 525/326.7; 525/379, 525/385, 525/386, 526/265, 526/274, 526/303.1, 526/317.1, 526/319, 526/341, 526/343, 526/344

ABSTRACT:

Water-soluble polymers having a water-soluble backbone and side units having in water a lower critical solution temperature, LCST, the polymers being obtainable by free-radical precipitation polymerization of water-soluble monomers and of macromonomers comprising a unit with an LCST whose heat-induced demixing temperature in aqueous solution is from 5 to 40.degree. C. for a concentration by mass in water of 1% of the said unit. Also described is a process for preparing these polymers by free-radical precipitation polymerization, and aqueous compositions containing these polymers and the use of these polymers and compositions, especially in cosmetics, for the cleansing and/or making up and/or care and/or antisen protection of keratin materials.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMMC	Draw De
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☐ 15. Document ID: US 20020187173 A1

L11: Entry 15 of 19

File: PGPB

Dec 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020187173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020187173 A1

TITLE: Compositions with an optical effect, especially cosmetic compositions

PUBLICATION-DATE: December 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
L'Alloret, Florence	Paris		FR	
Mamane, Maurice	Choisy Le Roi		FR	

US-CL-CURRENT: 424/401

ABSTRACT:

Cosmetic composition comprising an aqueous phase, said aqueous phase comprising at least one compound with an optical effect chosen especially from fillers, pigments, nacles, tensioning agents, matt-effect polymers and mixtures thereof, and a polymer comprising water-soluble units and units having in water a lower critical solution temperature LCST, the heat-induced demixing temperature in aqueous solution of said units with an LCST being from 5 to 40.degree. C. for a concentration by mass in water of from 1% to 25% of said units.

Use of these polymers to eliminate or reduce the tack and to maintain the staying

power of a film or deposit obtained from a composition with an optical effect containing them.

The compositions with an optical effect according to the invention may be in the form of emulsions or dispersions and are essentially compositions for topical application and especially cosmetic or pharmaceutical compositions.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGURE	Drawings
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☐ 16. Document ID: US 6689856 B2

L11: Entry 16 of 19

File: USPT

Feb 10, 2004

US-PAT-NO: 6689856

DOCUMENT-IDENTIFIER: US 6689856 B2

**** See image for Certificate of Correction ****

TITLE: WATER-SOLUBLE POLYMERS WITH A WATER-SOLUBLE BACKBONE AND SIDE UNITS WITH A LOWER CRITICAL SOLUTION TEMPERATURE, PROCESS FOR PREPARING THEM, AQUEOUS COMPOSITIONS CONTAINING THEM AND COSMETIC USE THEREOF

DATE-ISSUED: February 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
L'alloret; Florence	Paris			FR

US-CL-CURRENT: 526/333, 526/264, 526/265, 526/271, 526/274, 526/287, 526/288, 526/291, 526/303.1, 526/307.1, 526/307.5, 526/317.1, 526/330, 526/342

ABSTRACT:

Water-soluble polymers having a water-soluble backbone and side units having in water a lower critical solution temperature, LCST, the polymers being obtainable by free-radical precipitation polymerization of water-soluble monomers and of macromonomers comprising a unit with an LCST whose heat-induced demixing temperature in aqueous solution is from 5 to 40.degree. C. for a concentration by mass in water of 1% of the said unit. Also described is a process for preparing these polymers by free-radical precipitation polymerization, and aqueous compositions containing these polymers and the use of these polymers and compositions, especially in cosmetics, for the cleansing and/or making up and/or care and/or antisen protection of keratin materials.

39 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGURE	Drawings
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☒ 17. Document ID: US 6645476 B1

L11: Entry 17 of 19

File: USPT

Nov 11, 2003

US-PAT-NO: 6645476
DOCUMENT-IDENTIFIER: US 6645476 B1

TITLE: Water-soluble polymers and their use in cosmetic and pharmaceutical compositions

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morschhauser; Roman	Mainz			DE
Loffler; Matthias	Niedernhausen			DE

US-CL-CURRENT: 424/70.1; 424/400, 424/70.21, 514/772.4, 514/937

ABSTRACT:

The invention provides water-soluble polymers preparable by free-radical copolymerization of A) one or more macromonomers containing an end-group capable of polymerization, a hydrophilic moiety based on polyalkylene oxides, and a hydrophobic moiety which comprises hydrogen or a saturated or unsaturated, linear or branched, aliphatic, cycloaliphatic or aromatic (C.sub.1 -C.sub.30)-hydrocarbon radical, and B) one or more olefinically unsaturated comonomers which contain oxygen, nitrogen, sulfur, phosphorus, chlorine and/or fluorine. The polymers are suitable as thickeners, dispersing agents, emulsifiers, suspending agents, stabilizers and/or bodying agents for aqueous preparations, emulsions and suspensions, in particular for cosmetic and pharmaceutical compositions.

76 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Form	Draw De
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☐ 18. Document ID: US 6607994 B2

L11: Entry 18 of 19

File: USPT

Aug 19, 2003

US-PAT-NO: 6607994
DOCUMENT-IDENTIFIER: US 6607994 B2

TITLE: Nanoparticle-based permanent treatments for textiles

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Soane; David S.	Piedmont	CA		
Offord; David A.	Castro Valley	CA		
Linford; Matthew R	Orem	UT		
Millward; Dan B.	Alameda	CA		
Ware, Jr.; William	Palo Alto	CA		

Erskine; Lael	Fremont	CA
Green; Eric	Oakland	CA
Lau; Ryan	Berkeley	CA

US-CL-CURRENT: 442/59; 428/402, 428/402.2, 428/402.21, 428/402.24, 428/403,
428/407, 442/102, 442/123, 442/124, 442/125 , 442/132, 442/133, 442/136, 442/153,
442/96, 442/97

ABSTRACT:

This invention is directed to preparations useful for the permanent or substantially permanent treatment of textiles and other webs. More particularly, the preparations of the invention comprise an agent or other payload surrounded by or contained within a polymeric encapsulator that is reactive to webs, to give textile-reactive nanoparticles. By "textile-reactive" is meant that the payload nanoparticle will form a chemical covalent bond with the fiber, yarn, fabric, textile, finished goods (including apparel), or other web or substrate to be treated. The polymeric encapsulator of the payload nanoparticle has a surface that includes functional groups for binding or attachment to the fibers of the textiles or other webs to be treated, to provide permanent attachment of the payload to the textiles. Alternatively, the surface of the nanoparticle includes functional groups that can bind to a linker molecule that will in turn bind or attach the nanoparticle to the fiber. This invention is further directed to the fibers, yarns, fabrics, other textiles, or finished goods treated with the textile-reactive nanoparticles. Such textiles and webs exhibit a greatly improved retention or durability of the payload agent and its activity, even after multiple washings.

17 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FWMC	Draw Data
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☐ 19. Document ID: US 5840338 A

L11: Entry 19 of 19

File: USPT

Nov 24, 1998

US-PAT-NO: 5840338

DOCUMENT-IDENTIFIER: US 5840338 A

TITLE: Loading of biologically active solutes into polymer gels

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roos; Eric J.	Grafton	MA	01519	
Schiller; Matthew E.	Waltham	MA	02154	

US-CL-CURRENT: 424/488; 424/484, 424/486, 424/487, 514/944, 516/99

ABSTRACT:

Polymer gel networks loaded with biologically active solutes in a manner that

solute activity is maintained and protected from thermal and/or chemical degradation while in the gel network are provided. The invention also provides for effects of modulating parameters for loading safe responsive gel networks using loading solutions containing phase separating polymers.

29 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Draw De
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Term	Documents
(6 AND 10).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	19
(L10 AND L6).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	19

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